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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/510,298

10/06/2004

Johannus Wilhelmus Weekamp

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PHILIPS INTELLECTUAL PROPERTY & STANDARDS

P.O. BOX 3001

BRIARCLIFF MANOR, NY 10510

EXAMINER

GETACHEW, ABIY

ART UNIT

PAPER NUMBER

2841

MAIL DATE

DELIVERY MODE

07/02/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/510,298

Applicant(s)WEEKAMP, JOHANNUS
WILHELMUS**Examiner**

Abiy Getachew

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2841

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 April 2007.
- 2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 7-11 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 7-11 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 06 October 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. Claims 7-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Makamura et al. (6,882,544 B2) in view of Beek et al. (US 7,176,550 B2).

Regarding claim 7, Makamura et al. discloses an electronic device (10) comprising a substrate (130) with an electrical element (14) on its first side which element comprises a first (20) and a second electrode (21) which are connected to a metallization (13) by electrical contacts (112) and electrodes (20,21) of further electrical elements (14), the electronic device (10) is defined in an electroconductive (120) patterned layer (See figure 7) which is located on the first side of the substrate (130) and which is electroconductively connected to the metallization (11), isolating (15) material being present between said substrate and the patterned layer in which isolating (115) material the patterned layer (11) has been mechanically embedded. [Column 14 paragraph 2 lines 6-35] [Column 13 paragraph 3 lines 19-26]

Makamura et al. does not expressly disclose an inductive element, characterized in that the inductive element.

Beek et al. discloses further comprising an inductive element (11), characterized in that the inductive element (11).

Makamura et al. and Beek et al. are analogues art because they are from the same field of invidious forming of an electronic device.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to carrier inductive element that is located in one or more layers.

Therefore, it would have been obvious to combine Beek et al. with Makamura et al. to obtain the invention as specified claim above that an electronic device to comprising an inductive element.

In regards claim 8 as applied claim 7 above Makamura et.al. in view of Beek et al. discloses, characterized in that the patterned (11) layer extends in a plane parallel (See figure 70 to the first side beyond the substrate (130) and contact pads (105) for external contacting of the electronic device and the isolating material in essence completely envelops the substrate (130). (See the abstract)

In regards claim 9 as applied claim 7 above Makamura et.al. in view of Beek et al. discloses characterized in that the patterned (11) layer is situated between the isolating material (15) and additional layers (130) in which vertical interconnect areas (vias) (19) are defined. (See figure 7) [Column 15 paragraph 11 lines 47-52]

In regards claim 10 as applied claim 7 above Makamura et.al. in view of Beek et al. discloses characterized in that the metallization (11) along a boundary face with the isolating material (15) includes an inductive element (12) which is situated substantially

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opposite the inductive element (12) in the patterned layer (11), the inductive elements (12) together forming a strip line. (See figure 7)

In regards claim 11 as applied claim 7 above Makamura et.al. in view of Beek et al. discloses characterized in that the substrate (130) comprises a semiconductor material (See figure 7) selected from the group of III-V and II-VI connectors and in that the electrical element (14) is a semiconductor element. (Semiconductor elements mounted on the circuit substrate 130) (The Group III-V compound semiconductor contains a Group III element and a Group V element of the Periodic Table as principal components, and contains also 0.1 atom % to 40 atom % of hydrogen atoms and 100 ppm to 20 atom %, based on the sum of the atomic numbers of the Group III element and the Group V element, of at least one element selected from among Be, Mg, Ca, Zn and Sr.)

Conclusion

2. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Abiy Getachew whose telephone number is (571) 272 6932. The examiner can normally be reached on Monday to Friday 8Am to 4:30Pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dean A. Reichard can be reached on (571) 272 1984. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Abiy Getachew
Examiner
Art Unit 2841

A.G.
June 24, 2007



TUAN T DINH
PRIMARY EXAMINER